



NOTES:

1. HIGH QUALITY FULLY ANNEALED SEAMLESS TYPE 316 AUSTENITIC STAINLESS STEEL HYDRAULIC TUBING ASTM A212, A269 OR EQUIVALENT HARDNESS RB80 OR LESS. TUBING TO BE FREE OF SCRATCHES, O.D. TOLERANCE NOT TO EXCEED $-.003$
2. USE PROPER TUBE BENDER TO BEND THE TUBE KEEP THE TUBE ENDS STRAIGHT AND PROPER ROUNDNESS WITHOUT SCREATCHES
3. BOTH I.D. AND O.D. OF TUBE SHOULD BE DEBURRED AFTER CUTTING.
4. ALL DIMENSIONS IN [] ARE MILLIMETERS AND FOR REF. ONLY

SYM	CHANGE DESCRIPTION	BY	CHKD	DATE

ITEM	DWG/PART NUMBER	NOMENCLATURE OR DESCRIPTION	MATERIAL / SPEC	QTY
PARTS LIST				
UNLESS OTHERWISE SPECIFIED: ALL DIMENSIONS ARE IN INCHES TOLERANCES DECIMALS .X - .1 [2.5] .XX - .01 [0.25] .XXX - .005 [0.13] SURFACE ROUGHNESS 125 REMOVE ALL BURRS AND BREAK SHARP EDGES .03 MAX. SURFACE TEXTURE TO BE IN ACCORDANCE WITH LATEST ANSI B46.1 DIMENSIONING & TOLERANCING IN ACCORDANCE WITH LATEST ANSI Y14.5 DO NOT SCALE DRAWING		LOG NUMBER L5880002-00 THIS DRAWING IS THE PROPERTY OF ARGONNE NATIONAL LABORATORY UNIVERSITY OF CHICAGO		
DRAWN BY MUSCIA	DATE 1/28/98	CHIEF DESIGN ENGINEER D. Shu	DATE 2/10/98	TITLE ADVANCED PHOTON SOURCE L5-88 APS UNDULATOR WHITE BEAM H & V SLITS FIXED MASK COOLING TUBE
CHECKED BY J. CHANG	DATE 2/10/98	GP LEADER T.M. Kuzay	DATE 2/18/98	
DESIGNER CHANG/MUSCIA	DATE 1/28/98	PROJECT MGR.	DATE	
RESPONSIBLE ENGINEER J. CHANG	DATE 2/10/98	APPROVED/RELEASED	DATE	
MATERIAL .375 O.D. X .035 WALL X 9.33 LG. 304 SST SEE NOTE #1		SCALE 1:1	SIZE B	DRAWING NUMBER L5-880002-00